

Serial No. 10/714,767

Dkt.: P0011092US

Filing Date: November 17, 2003

Title: IMPLANTABLE HEART VALVE PROSTHETIC DEVICES HAVING INTRINSICALLY
CONDUCTIVE POLYMERSAMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An implantable heart valve sewing prosthesis comprising a ring shaped body having a blood contacting external surface including an intrinsically conductive polymer having a resistivity of less than about 2000 ohms per square, wherein the intrinsically conductive polymer is conductive without ~~is free of~~ a metallic filler or coating.
2. (Previously presented) The prosthesis of claim 1, wherein the ring shaped body is substantially closed upon itself.
3. (Previously presented) The prosthesis of claim 1, wherein the ring shaped body has an annular gap and is not closed upon itself.
4. (Withdrawn) The prosthesis of claim 1, wherein the prosthesis is a prosthetic heart valve sewing ring.
5. (Previously presented) The prosthesis of claim 1, wherein the external surface includes at least a part of a sheath of fabric, wherein the fabric incorporates the intrinsically conductive polymer.
6. (Previously presented) The prosthesis of claim 1, wherein the polymer has a resistivity of less than 1000 ohms per square.
- 7-19. (Cancelled)

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20. (Currently amended) An annuloplasty prosthesis for implanting in a heart valve annulus in a patient, the annuloplasty prosthesis comprising a ring shaped body comprising a blood contacting external surface comprising an intrinsically conductive polymer having a resistivity of less than about 2000 ohms per square, wherein the intrinsically conductive polymer is conductive without ~~is free of~~ a metallic filler or coating.

21. (Cancelled)

22. (Previously presented) The annuloplasty prosthesis of claim 20, wherein the external surface comprises fabric, wherein the fabric comprises an intrinsically conductive polymer.

23-25. (Cancelled)

26. (Previously presented) The annuloplasty prosthesis of claim 20, wherein the intrinsically conductive polymer has a resistivity of less than 1000 ohms per square.

27-43. (Cancelled)

44. (Withdrawn) The prosthesis of claim 4, wherein the prosthesis is a prosthetic heart valve sewing cuff.

45. (Previously presented) The prosthesis of claim 1, wherein the external surface includes a fabric having the polymer layer formed thereover.

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46. (Previously presented) The prosthesis of claim 45, wherein the fabric is formed of a plurality of individual filaments, and wherein the polymer layer is at least in part formed by a polymer coating over the individual filaments.
47. (Previously presented) The prosthesis of claim 45, wherein the fabric is formed of a plurality of individual filament bundles formed of a plurality of filaments, and wherein the polymer layer is at least in part formed by a polymer coating over the individual filament bundles.
48. (Previously presented) The prosthesis of claim 45, wherein the fabric is formed of a plurality of individual fibers formed of a plurality of filament bundles formed of a plurality of filaments, and wherein the polymer layer is at least in part formed by a polymer coating over the individual fibers.
49. (Previously presented) The prosthesis of claim 45, wherein the polymer layer is a product of *in situ* polymerization on the fabric.
50. (Previously presented) The prosthesis of claim 45, wherein the fabric is formed at least in part by filaments of integrally formed intrinsically conductive polymer.
51. (Previously presented) The prosthesis of claim 45, wherein the polymer layer comprises polypyrrole.
52. (Previously presented) The prosthesis of claim 45, wherein the polymer layer comprises a polypyrrole derivative.
53. (Previously presented) The prosthesis of claim 45, wherein the polymer layer has a surface resistivity between about 10 and 1000 ohms per square.

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54. (Currently amended) The prosthesis of claim 45, wherein the polymer layer includes a polymer selected from polyaniline, polypyrrole, poly(vinylferrocene), polyacetylene ~~polyacetyne~~, polythiophene, polybithiophene, and derivatives and combinations thereof.
55. (Previously presented) The prosthesis of claim 45, wherein the polymer layer includes a polymer selected from polypyrrole and derivatives thereof.
56. (Previously presented) The prosthesis of claim 55, wherein the polymer is doped with dialkyl-napthalene sulfonate.